

Abstract of the Disclosure:

The invention relates to a method for data transmission in a communication system, especially in a CDMA mobile radio system, wherein the data are transmitted structured into frames (1, 4, 5) and a transmitting station transmits the data in such a manner that a receiving station receiving the data is able to perform other functions, especially carrying out measurements via a receiving device, during one or more interruption phases (2) in which it interrupts the reception and/or the processing of received data. It is the object of the invention to allow interruption phases (2) whilst maintaining as good a quality of the data transmission as possible. For this purpose, it is proposed that an individual continuous interruption phase (2) extends over at least sectional-portions of at least two successive frames (4, 5).